Philips Medical Systems

FIELD CHANGE ORDER — Service

Issued by	:	PMS Hamburg	**Reference No.**	:	00 135 002
Released	:	G.Kramm.....	**Date**	:	October 1996
Pubilication No.	:	4512 980 54331	**Product Group**	:	742

OPTIMUS 50 / 65 / 80

APPLIES TO :

All OPTIMUS 50 / 65 / 80 generators
9890 000 0211x
9890 000 0212x
9890 000 0213x
9890 000 0214x
9890 000 0215x

TITLE :

Upgrade of OPTIMUS generators to Release 2.2

LIST OF PAGES AND DRAWINGS :

1 (96.0) Z1 ANR (96.0)
2 (96.0)

CONTENTS

Modification kit instructions will be supplied with the kit

INTRODUCTION

Presently there are OPTIMUS generators in use with firmware levels of 0.3 and 1.1. There have been several reported intermittent problems with "lock ups" and other error codes with difficulty in changing and managing the APR structure. The FCO will bring the installed base to the same firmware along with correcting the intermittent "lock up" problems and improved APR management.
The Upgrade will also provide a new improved version of XRG Scope.

MANPOWER / TIME TO COMPLETE

1 engineer 2.5 hours

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TOOLS & TEST EQUIPMENT

Standard service toolkit
Service PC with serial cable and hardkey

MODIFICATION KIT / PARTS REQUIRED

For all systems mentioned in APPLIES TO, the following part can be ordered at the Service spare part centre in Hamburg:

4512 104 38401 upgrade kit OPTIMUS release 2.2

This kit contains:

4512 114 20822	firmware release 2.2
4512 113 20721	CU boot
4512 113 20512	Human interface
4512 113 20205	MA control
2012 573 00015	2x 1nF/10 100 X7R
2222 682 10339	2x 33pF/2 100 NP0
2222 682 58479	47pF/2 100 N750
2422 487 89772	PLCC Amp extraction tool (822154-1)
4512 104 38531	MA dumping connector
4512 984 04841	upgrade docu
4512 109 2008x	operators manual

Note:
The modification kit will be available Free Of Charge till the end March 1997 at the spare part centre in Hamburg. Please refer the generator serial number when ordering the modification kit.

PROCEDURE

Detailed procedure supplied in the Modification kit.

PARTS DISPOSAL

Not applicable

DOCUMENTATION

Exchange in the book Service Subsystem Manual OPTIMUS all parts with the documentation. sections:

- Installation
- Fault Finding
- Replacement
- Programmings
- Adjustments
- Acceptance
- Parts List

Complete Field Change Order Action Notification Report and return.

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FIELD CHANGE ORDER
ACTION NOTIFICATION REPORT

TITLE: **Upgrade of OPTIMUS generators to release 2.2**	
CLASSIFICATION: **ACTION for Performance**	FCO REF NO.: **00 135 002**
APPLIES TO: **All OPTIMUS 50 / 65 / 80 generators**	

HOSPITAL / ADDRESS:

LOCATION / FW SITE No.	SALES ORDER NUMBER / OA NUMBER:

PRODUCT NUMBER: | | | | | | | | | | | | |

UNIT SERIAL NUMBER: | | | | | | | |

ACTION ON THIS UNIT WAS: (select one) Completed per instructions on _____ DATE Done by the factory prior to delivery. Not completed because this unit is not affected per instructions. Not completed because customer has unit in storage	JOB NUMBER / INCIDENT NUMBER

CUSTOMER ACKNOWLEDGEMENT (Required for MANDATORY ACTIONS only).

The REASON and PURPOSE of this modification have been explained to me.

_____ SIGNATURE _____ DATE _____ TITLE

Branch
Region/
Dealer. _____

Service unit /
Service area number: _____

_____ SERVICE ENGINEER'S SIGNATURE _____ SERVICE MANAGER'S SIGNATURE	Date: _____ **MAIL TO: SSD Prep. Mgr.**

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